HANES SUPPLY INC.

RIGGING BROCHURE

YOUR SLING & RIGGING SPECIALISTS

TWIN-PATH®

NYLON

POLYESTER

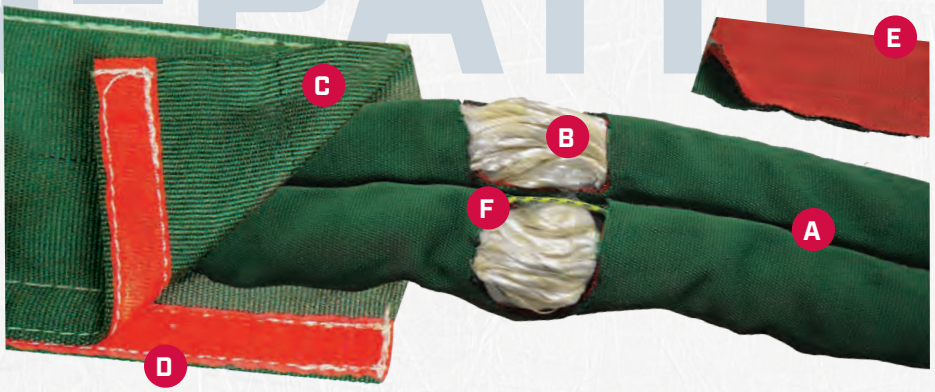
WIRE ROPE

CHAIN

ISO 9001:2015 REGISTERED COMPANY

TWIN-PATH SLINGS

TWIN-PATH®



A *Twin-Path® Slings are two separate paths working together as one sling.*

B *High performance fibers known as (K-Spec) have less than 1% elongation at rated capacity with a high resistance to chemicals, heat and moisture.*

C *Covermax outer cover is 4x more abrasion resistant than polyester outer covers.*

D *Our Armor Wear Pads are removable using Velcro or can be sewn directly over sling*

E *Safety inner sleeve acts as an early warning device when the outer sleeve is cut or worn.*

F *Check-Fast® External Warning Indicator provides a quick way of checking the condition of the sling.*

"WEIGHS 90% LESS THAN A STEEL SLING"

SMART SLING®

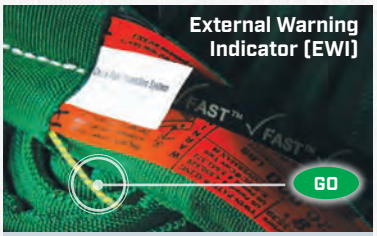
MONITOR WHAT MATTERS

Without Smart Sling Technology planning and executing a critical lift is tough. Your crane is in position and it's time to begin the lift but you need to know that every detail is going as planned and that your people are not in danger.

- Reduce risk to your workers
- Reduce costly accidents
- Increased Accountability
- Peace of mind
- Improve morale
- Monitor multiple job sites remotely
- Objective safety milestones

CHECK-FAST® INSPECTION SYSTEM

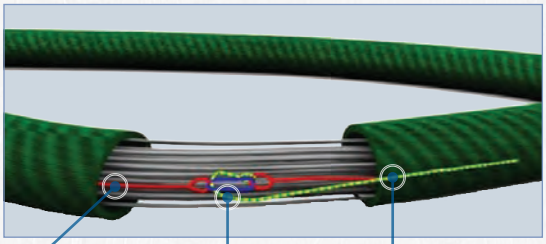
Designed to improve job site safety, the Check-Fast® External Warning Indicator (EWI) provides a criteria for pass/fail inspection when the internal load-bearing core yarn may be damaged. The Check-Fast® Inspection System can also indicate ultraviolet (UV) light degradation, fiber-on-fiber abrasion, fatigue, and severe overload. If the sling is overloaded beyond its rated capacity, the EWI is designed to retract before the sling fails. The sling inspector now has an objective "GO/NO-GO" inspection device rather than relying on subjective and labor-intensive inspection techniques to guess if the load-bearing core yarns are in good condition.



✓ FAST® TAG & EWI EXTEND FROM COVER

EWI IS MISSING: REMOVE FROM SERVICE

UNDAMAGED SLING

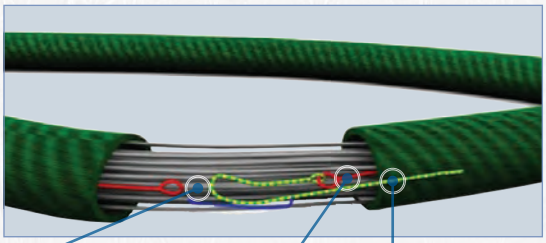


Sacrificial strand (same material as sling core yarns)

"Weak Link" +/- 65% breaking strength vs. sling core yarns.

External Warning Indicator (EWI)

OVERLOADED SLING



Weak Link fails from severe overload.

Sacrificial strand recoils

External Warning Indicator pulls violently into the sling

INSTANT ALERT OF UNEXPECTED OVERLOAD

TWIN-PATH® SLING HEALTH STATUS UNDER LOAD

TAKE CONTROL OF CRITICAL LIFTS

COVERMAX® COVERS

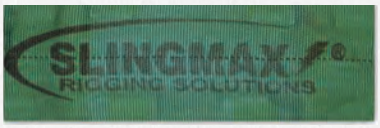
COVERMAX® COVER - UV RESISTANCE

ULTRA-VIOLET LIGHT (UV) RESISTANCE (TESTING)

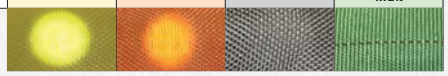
Because of the Covermax® tubing's thick dense structure the material restricts a vast majority of the ultra-violet rays that penetrate other round sling covers.

NO EXPOSURE

500 HOURS EXPOSURE



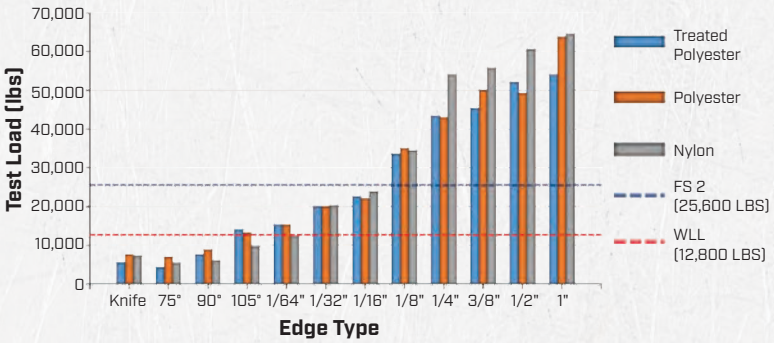
FIBER TYPE	NO UV EXPOSURE	NO COVER	DBL YELLOW POLY COVER	DBL ORANGE	DBL BLACK POLY COVER	COVERMAX® COVER
	BASE LINE	PERCENTAGE OF STRENGTH LOST AT 500 HOURS OF UV EXPOSURE TO COVERS / FIBER				
POLYESTER	100%	36%	12%	9%	5%	2%
ARAMID	100%	28%	26%	27%	9%	2%
K-SPEC®	100%	12%	–	–	–	1.13%



SLING PROTECTION

The rigger should always consider how the sling they choose could be impacted by the load and work to minimize danger of cutting, bunching, or otherwise damaging the sling under load. Web slings and round slings can be damaged with little notice from edges and friction during a lift. The ASME B30.9 Standard on Slings states, "Slings in contact with edges, corners, protrusions, or abrasive surfaces SHALL be protected with a material of sufficient strength, thickness, and construction to prevent damage." All edges present the threat of damage. In the case of synthetic slings, the 5:1 design factor is not realized in edge radius less than 1". In situations where the edge radius is less than 1", CUT protection is required.

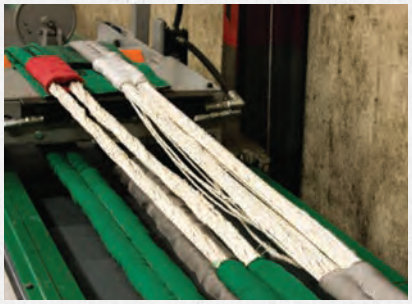
SLING BREAK LOAD VS. EDGE TYPE



COVERMAX® RIFLED COVER® TECHNOLOGY

US Patent*

Rifled Cover® Technology is a major patented breakthrough only available on Slingmax® Twin-Path® high-performance fiber roundslings. Rifled Cover® Technology works like the inside of a rifle barrel, where the bullet spins as it leaves the muzzle of the gun. The helical winding of the core fibers significantly improves strength and efficiency.



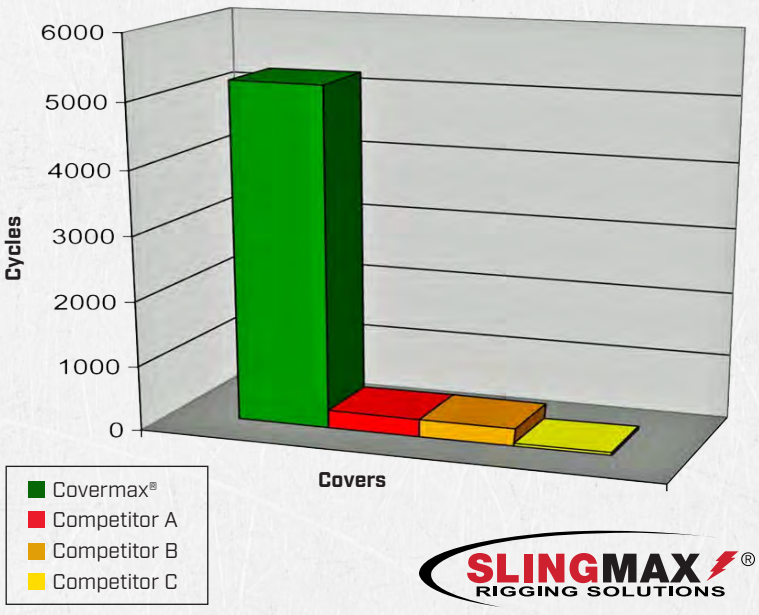
Twin-Path® high-performance roundslings with patented Rifled Cover® Technology yield three major advantages:

1. Increased strength-to-weight ratio. 17% increased breaking strength with the same amount of core yarn.
2. Consistent and predictable breaking strength for every sling.
3. Repeatability in the manufacturing process.

COVERMAX® COVER - ABRASION

Any Twin-Path® sling can be made with a Covermax® cover. This is made of a heavy-duty, double layer industrial nylon material. The outside cover is green and the inside cover is red. If you see any red showing through the green cover, stop using the sling and get a repair evaluation. This cover has been tested to provide the best ultraviolet (UV) protection and the best abrasion protection of any commercially available synthetic lifting sling. Below are summary charts of the cover tests.

ROUNDSLING COVER ABRASION TEST RESULTS



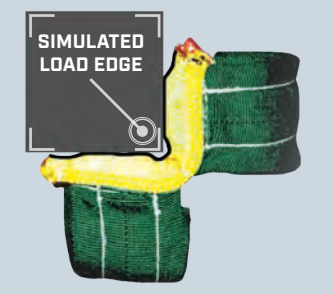
SLINGMAX® RIGGING SOLUTIONS

*Find patent information: www.HanesSupply.com/slingmax-patents

TWIN-PATH® ACCESSORIES

CORNERMAX® PADS (EDGE PROTECTION) US Patent*

Exposure of a sling to load edges or corners requires protection that is not susceptible to cutting because of toughness or zero contact. As shown in the photo, the CornerMax Pad forms a tunnel between the load edge and the pad. This geometric separation is essential in protecting the pad itself from contacting the load edge, which provides maximum protection to the sling.



CornerMax® pads have a rated WLL of 25,000 lbs. per inch of sling width.

CORNERMAX®			
STOCK NO.	SLING WIDTH (IN.)	APPROX WIDTH (IN.)	APPROX WEIGHT (TONS)
CRNMX02	1 & 2	4	1.00
CRNMX03	3	5	1.25
CRNMX04	4	6	1.50
CRNMX05	5	8	2.00
CRNMX06	6	8	2.00
CRNMX08	8	10	2.50
CRNMX10	10	12	3.00

SYNTHETIC ARMOR™ PADS (ABRASION PROTECTION)

Synthetic Armor Pads protect slings from abrasion damage which can be caused by contact with rough surfaces such as concrete beams and structures. They are also used to protect finished or painted loads from marring. These wear pads can be made to fit any length or width sling. They can also be made in long lengths which the customer can cut into suitable sizes on the job. Double or triple thickness provides resistance for the more severe conditions. There is no maximum width and a variety of materials are used to protect slings and to protect loads.

"Sliding"
SYNARM-SL

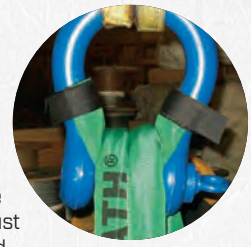
"Removable"
SYNARM-RM

"Eye & Eye"
SYNARM-EE

CORNERMAX® SLEEVE (CUT PROTECTION)

The CornerMax Sleeve is the latest in rigging protection from SLINGMAX® Rigging Solutions. The CornerMax Sleeve is the ideal solution to protect synthetic slings from cutting when it is not practical to use a CornerMax Pad, whether due to curvature of the load edge or repetitive uses such as unloading steel coils. Independent field and laboratory testing has shown the CornerMax Sleeve to be extremely cut resistant. The CornerMax Sleeve is made with Dyneema® Fiber and is proven tough. To prevent sliding, the 6" wide CornerMax Sleeve has been sewn down the middle (5") on each end of the Twin-Path Extra Sling (pictured). The true benefits of this revolutionary material far outweigh the costs and now provide for the use of synthetic slings in applications previously dominated by heavy chain, mesh and wire rope slings.

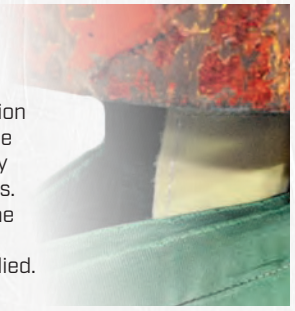
SHACKLE PIN PADS (ABRASION PROTECTION)



The pin area of a shackle can cause synthetic slings to cut and placing synthetic slings on the pin should be avoided. Even a new shackle can have a sharp edge where the threaded pin goes through the shackle ear. If the sling is exposed to this area, it can cut and fail. The Shackle Pin Pad is the latest SLINGMAX® SOLUTION in the constant effort to ensure the ultimate rigging safety of our customers. If you must rig on the pin, protect your sling with a Shackle Pin Pad.

Find patent information: www.HanesSupply.com/slingmax-patents

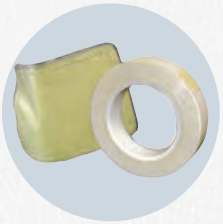
SYN-GLIDE FILM (FRICTION PROTECTION)



Syn-Glide Film is the only material available on the market today that reduces 70% of cover friction by allowing the cover to glide over itself or a piece of hardware. Syn-Glide is an important accessory for every rigger that works with Twin-Path® Slings. Syn-Glide is designed to eliminate the "bite" of the Covermax cover in situations where the cover is resting on itself when the weight of a load is applied.

Syn-Glide will:

- Decrease cost of job
- Eliminate large shackles and hardware
- Increase job-site safety
- Increase job speed
- Significantly reduce the need for sling repair



TWIN-PATH® EQUALIZER BLOCK

The Equalizer Block is used to maintain tension on all legs of the sling during a lift. Rather than adjusting slings and hooks prior to completing a lift, the Equalizer Block automatically adjusts itself when the load is put on the device from the sling. This product was designed specifically for Twin-Path® slings and is the only rolling block for synthetic roundslings.

TWIN-PATH® EQUALIZER BLOCK				
PART NO.	CAPACITY (5:1 DF)	MAX SLING WIDTH (IN.)	SUGGESTED SLING FOR 90° BASKET	BLOCK WEIGHT (LBS)
SEB10	10 US TON	3	TPXCF1000	44
SEB25	25 US TON	4	TPXCF2500	79
SEB50	50 US TON	6	TPXCF5000	220
SEB75	75 US TON	6	TPXCF7500	270
SEB125M	125 METRIC TON	8	TPXCF15000	640

TWIN-PATH® FIELD TAPER

The Twin-Path® Field Taper is a removable, repositionable wrap that reduces the width of TPXCF slings onsite. This is a tool that can be utilized to fit a sling into smaller openings without sacrificing sling capacity.

Benefits:

1. Removable and transferable from sling to sling.
2. Can be installed by the customer in the field.
3. Bearing points can be changed throughout the sling length.
4. Much quicker installation.
5. Doesn't contaminate a nuclear fuel pool.
6. Easy inspection of sling after use.

NYLON SLINGS

TWIN-PATH® EXTRA COVERMAX® CHECK-FAST	RATED CAPACITIES (LBS) 5-1 D/F					APPROX. WEIGHT (LBS/FT) (BEARING-BEARING)	APPROX. BODY WIDTH (IN)	MINIMUM RECOMMENDED HARDWARE DIAMETER (INCHES)	MINIMUM BENDING RADIUS (INCHES)
	VERTICAL	CHOKER	BASKET HITCHES						
			90°	60°	45°				
TPXCCF/TPXC 1000	10,000	8,000	20,000	17,320	14,140	.40	1.5 - 3	0.63	0.32
TPXCCF/TPXC 1500	15,000	12,000	30,000	25,980	21,210	.45	1.5 - 3	0.75	0.38
TPXCCF/TPXC 2000	20,000	16,000	40,000	34,640	28,280	.51	1.5 - 3	0.86	0.43
TPXCCF/TPXC 2500	25,000	20,000	50,000	43,300	35,350	.57	1.5 - 3	1.00	0.50
TPXCCF/TPXC 3000	30,000	24,000	60,000	51,960	42,420	.71	2.0 - 4	1.10	0.55
TPXCCF/TPXC 4000	40,000	32,000	80,000	69,280	56,560	.83	2.0 - 4	1.40	0.70
TPXCCF/TPXC 5000	50,000	40,000	100,000	86,600	70,700	1.14	2.5 - 5	1.50	0.75
TPXCCF/TPXC 6000	60,000	48,000	120,000	103,920	84,840	1.27	2.5 - 5	1.50	0.75
TPXCCF/TPXC 7000	70,000	56,000	140,000	121,240	98,980	1.39	2.5 - 5	1.84	0.92
TPXCCF/TPXC 8500	85,000	68,000	170,000	147,220	120,190	1.65	3.0 - 6	1.84	0.92
TPXCCF/TPXC 10000	100,000	80,000	200,000	173,200	141,400	1.84	3.0 - 6	2.00	1.00
TPXCCF/TPXC 12500	125,000	100,000	250,000	216,500	176,750	2.35	4.0 - 8	2.50	1.25
TPXCCF/TPXC 15000	150,000	120,000	300,000	259,800	212,100	2.66	4.0 - 8	2.50	1.25
TPXCCF/TPXC 17500	175,000	140,000	350,000	303,100	247,450	3.14	5.0 - 10	2.80	1.40
TPXCCF/TPXC 20000	200,000	160,000	400,000	346,400	282,800	3.45	5.0 - 10	3.00	1.50
TPXCCF/TPXC 25000	250,000	200,000	500,000	433,000	353,500	4.07	5.0 - 10	3.30	1.65
TPXCCF/TPXC 27500	275,000	220,000	550,000	476,300	388,850	4.61	6.0 - 12	3.62	1.81
TPXCCF/TPXC 30000	300,000	240,000	600,000	519,600	424,200	4.92	6.0 - 12	9.50	4.75
TPXCCF/TPXC 40000	400,000	320,000	800,000	692,800	565,600	6.54	7.0 - 14	9.50	4.75
TPXCCF/TPXC 50000	500,000	400,000	1,000,000	866,000	707,000	8.15	8.0 - 16	11.40	5.70
TPXCCF/TPXC 60000	600,000	480,000	1,200,000	1,039,000	848,000	10.20	9.0 - 18	11.40	5.70

NOTE: When ordering a Twin-Path® sling, the Check-Fast® Inspection System is included unless specified otherwise.

TWIN-PATH® EXTRA COVERMAX® SLINGS

- Are constructed of high performance load carrying yarns.
- Orange Tag Patch: High Performance Load Yarns.
- Load carrying yarns are protected by two independent, seamless, color coded, covers.
- The internal red cover is protected by an outer green cover of Covermax nylon.
- Sleeves can be sewn around the body of the sling so that they can be positioned to the areas needed.

SINGLE-PATH® EXTRA COVERMAX® SLINGS

- LIGHTER IS BETTER: Slingmax Twin-Path slings are 90% lighter than steel slings rated at a similar load capacity. They also weigh 30% less than polyester or nylon slings of a comparable load limit rating. Less effort to rig is needed and it is much easier to transport and store.
- CORE STRENGTH: K-Spec fibers have a high resistance to chemicals, heat, moisture and the core yarn is the longest-lasting for any synthetic sling. The Rifled Cover Technology process includes helical winding, or spinning, of the core fibers during manufacturing which significantly improves strength, efficiency and sling reliability.

SLINGMAX® RIGGING SOLUTIONS

SINGLE-PATH K-SPEC® SLING STOCK NO.	RATED CAPACITIES (LBS) 5-1 D/F					APPROX. WEIGHT (LBS/FT) (BEARING-BEARING)	NOMINAL BODY WIDTH (IN)	MINIMUM RECOMMENDED HARDWARE DIAMETER (INCHES)	MINIMUM BENDING RADIUS (INCHES)
	VERTICAL	CHOKER	BASKET HITCHES						
			90°	60°	45°				
SPXCF 500	5,000	4,000	10,000	8,600	7,07	.36	2.5"	0.76	0.38
SPXCF 1000	10,000	8,000	20,000	17,320	14,140	.41	2.5"	0.88	0.44
SPXCF 1500	15,000	12,000	30,000	25,980	21,210	.46	2.5"	1.00	0.50
SPXCF 2000	20,000	16,000	40,000	34,640	28,280	.54	2.5"	1.26	0.63
SPXCF 2500	25,000	20,000	50,000	43,300	35,350	.60	3"	1.38	0.69
SPXCF 3000	30,000	24,000	60,000	51,960	42,420	.66	3"	1.50	0.75
SPXCF 4000	40,000	32,000	80,000	69,280	56,560	.79	3"	1.76	0.88
SPXCF 5000	50,000	40,000	100,000	86,600	70,700	1.02	4"	1.76	0.88
SPXCF 6000	60,000	48,000	120,000	103,920	84,840	1.15	4"	2.00	1.00
SPXCF 7000	70,000	56,000	140,000	121,240	98,980	1.31	4"	2.25	1.13
SPXCF 8500	85,000	68,000	170,000	147,220	120,190	1.55	5"	2.50	1.25
SPXCF 10000	100,000	80,000	200,000	173,200	141,400	1.78	5"	2.75	1.38
SPXCF 12500	125,000	100,000	250,000	216,500	176,750	2.12	5"	3.00	1.50
SPXCF 15000	150,000	120,000	300,000	259,800	212,100	2.54	6"	3.00	1.50
SPXCF 17500	175,000	140,000	350,000	303,100	247,450	3.09	6"	3.50	1.75
SPXCF 20000	200,000	160,000	400,000	346,400	282,800	3.58	6"	3.50	1.75

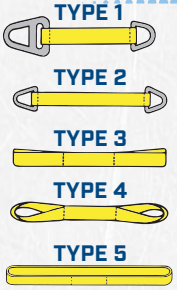
THE COST-EFFECTIVE CHOICE!

SINGLE PATH - ENDLESS POLYESTER ROUND SLINGS

- A flexible solution to your lifting needs.
- Rotation of lift points extends service life of sling.
- Length measure from Bearing Point to Bearing Point.
- Two same color polyester tubular jackets.

STOCK NUMBER	COLOR	MIN. LENGTH (FT)	APPROX. MEASUREMENTS			RATED CAPACITIES (LBS)		
			WEIGHT (LBS/FT)	BODY DIA. RELAXED (IN)	WIDTH AT LOAD (IN)	VERTICAL	CHOKER	BASKET
SP260	Purple	3	.20	5/8	1-1/8	2,600	2,100	5,200
SP530	Green	3	.30	7/8	1-1/2	5,300	4,200	10,600
SP840	Yellow	3	.40	1-1/8	1-7/8	8,400	6,700	16,800
SP1060	Tan	3	.50	1-1/8	2-1/8	10,600	8,500	21,200
SP1320	Red	3	.70	1-3/8	2-1/4	13,200	10,600	26,400
SP1680	White	3	.80	1-3/8	2-1/2	16,800	13,400	33,600
SP2120	Blue	3	1.1	1-3/4	3	21,200	17,000	42,400
SP3100	Grey	3	1.6	2-1/4	3-3/4	31,000	24,800	62,000
SP4000	Orange	5	2.0	2-1/2	4-3/16	40,000	32,000	80,000
SP5300	Brown	8	2.5	2-3/4	4-5/8	53,000	42,400	106,000
SP6600	Olive	8	3.1	3-1/8	5-1/4	66,000	52,800	132,000
SP9000	Black	8	4.0	3-5/8	6	90,000	72,000	180,000
SP10000	Black	8	4.4	4	6-1/4	100,000	80,000	200,000

NYLON SLINGS



HEAVY DUTY NYLON & POLYESTER SLINGS[1]
1) Heavy Duty Web thickness is approximately 3/16".
2) Eye length of Types 3 and 4 varies with sling width and number of webbing plies.

EYE LENGTH CHART

SLING WIDTH (IN)	PLIES OF WEBBING (IN)			
	1	2	3	4
1	8-1/2	8-1/2	10	10
2	10	10	12	12
3	11	11	14	14
4	12	12	16	16
5	14	14	18	18
6	16	16	18	18
8	20	20	24	24
10	24	24	24	24
12	24	24	24	24

TYPES 1 & 2

	WEB WIDTH (IN)	TYPE 1 (TC)	TYPE 2 (TT)	RATED CAPACITIES (LBS)		
				VERTICAL	CHOKER*	BASKET
1 PLY	2	TC1-802	TT1-802	3,200	2,400	6,400
	3	TC1-803	TT1-803	4,800	3,600	9,600
	4	TC1-804	TT1-804	6,400	4,800	12,800
	5	TC1-805	TT1-805	8,000	6,000	16,000
	6	TC1-806	TT1-806	9,600	7,200	19,200
	8	TC1-808	TT1-808	12,800	9,600	25,600
	10	TC1-810	TT1-810	16,000	12,000	32,000
	12	TC1-812	TT1-812	19,200	14,400	38,400
	16	TC1-816	TT1-816	25,500	19,200	51,000
	18	TC1-818	TT1-818	28,700	21,000	57,400
	20	TC1-820	TT1-820	32,000	24,000	64,000
	24	TC1-824	TT1-824	38,400	28,800	76,800
2 PLY	2	TC2-802	TT2-802	6,400	4,800	12,800
	3	TC2-803	TT2-803	8,600	6,500	17,200
	4	TC2-804	TT2-804	11,500	8,600	23,000
	5	TC2-805	TT2-805	14,000	10,500	28,000
	6	TC2-806	TT2-806	16,800	12,600	33,600
	8	TC2-808	TT2-808	22,400	16,800	44,800
	10	TC2-810	TT2-810	28,000	21,000	56,000
	12	TC2-812	TT2-812	33,600	25,200	67,200
	16	TC2-816	TT2-816	44,800	33,600	89,600
	18	TC2-818	TT2-818	50,400	37,800	100,800
	20	TC2-820	TT2-820	56,000	42,000	112,000
	24	TC2-824	TT2-824	67,200	50,400	134,400

Three & Four Ply Hardware Slings are Available upon Request.
* Type Two cannot be used with a choker hitch.

TYPES 3-FLAT EYE & 4-TWISTED EYE

	WEB WIDTH (IN)	FLAT EYE TYPE 3 (EE)	TWISTED EYE TYPE 4 (EE)	RATED CAPACITIES (LBS)		
				VERTICAL	CHOKER	BASKET
1 PLY	1	EE1-801		1,600	1,200	3,200
	2	EE1-802		3,200	2,400	6,400
	3	EE1-803		4,800	3,600	9,600
	4	EE1-804		6,400	4,800	12,800
	5	EE1-805		8,000	6,000	16,000
	6	EE1-806		9,600	7,200	19,200
	8	EE1-808		12,800	9,600	25,600
	10	EE1-810		16,000	12,000	32,000
	12	EE1-812		19,200	14,400	38,400
2 PLY	1	EE2-801		3,200	2,400	6,400
	2	EE2-802		6,400	4,800	12,800
	3	EE2-803		8,600	6,500	17,200
	4	EE2-804		11,500	8,600	23,000
	5	EE2-805		13,600	10,200	27,200
	6	EE2-806		16,300	12,200	32,600
	8	EE2-808		22,700	18,150	45,400
	10	EE2-810		28,400	22,700	56,800
	12	EE2-812		34,100	27,250	68,200
3 PLY	1	EE3-801		4,100	3,100	8,200
	2	EE3-802		8,300	6,200	16,600
	3	EE3-803		12,500	9,300	25,000
	4	EE3-804		16,000	12,000	32,000
	5	EE3-805		19,200	14,400	38,400
	6	EE3-806		23,000	17,200	46,000
	8	EE3-808		30,700	23,000	61,400
	10	EE3-810		36,800	27,600	73,600
	12	EE3-812		44,000	33,000	88,000
4 PLY	1	EE4-801		5,000	3,800	10,000
	2	EE4-802		10,000	7,500	20,000
	3	EE4-803		14,900	11,100	29,800
	4	EE4-804		19,800	14,800	39,600
	5	EE4-805		24,800	18,600	49,600
	6	EE4-806		29,800	22,300	59,600
	8	EE4-808		39,700	29,700	79,400
	10	EE4-810		49,600	37,200	99,200
	12	EE4-812		59,500	44,600	119,000

TYPE 5 ENDLESS

	WEB WIDTH (IN)	TYPE 5 (EN)	RATED CAPACITIES (LBS)		
			VERTICAL	CHOKER	BASKET
1 PLY	1	EN1-801	3,200	2,500	6,400
	2	EN1-802	6,400	5,000	12,800
	3	EN1-803	8,600	6,900	17,200
	4	EN1-804	11,500	9,200	23,000
	5	EN1-805	13,600	10,900	27,200
	6	EN1-806	16,300	13,000	32,600
	8	EN1-808	19,200	15,400	38,400
	10	EN1-810	22,400	17,900	44,800
	12	EN1-812	26,900	21,500	53,800
2 PLY	1	EN2-801	6,200	4,900	12,400
	2	EN2-802	12,200	9,800	24,400
	3	EN2-803	16,300	13,000	32,600
	4	EN2-804	20,700	16,500	41,400
	5	EN2-805	24,500	19,600	49,000
	6	EN2-806	28,600	23,000	57,200
	8	EN2-808	30,700	24,500	61,400
	10	EN2-810	33,600	26,800	67,200
	12	EN2-812	37,600	30,000	75,200
3 PLY	1	EN3-801	8,000	6,400	16,000
	2	EN3-802	16,000	12,800	32,000
	3	EN3-803	21,500	17,200	43,000
	4	EN3-804	28,700	23,000	57,400
	5	EN3-805	34,000	27,200	68,000
	6	EN3-806	40,700	32,500	81,400
	8	EN3-808	46,000	36,800	92,000
	10	EN3-810	51,500	41,200	103,000
	12	EN3-812	59,200	47,300	118,400
4 PLY	1	EN4-801	10,000	8,000	20,000
	2	EN4-802	19,800	15,800	39,600
	3	EN4-803	26,700	21,300	53,400
	4	EN4-804	35,600	28,400	71,200
	5	EN4-805	42,200	33,700	84,400
	6	EN4-806	50,500	40,400	101,000
	8	EN4-808	57,600	46,000	115,200
	10	EN4-810	67,200	53,700	134,400
	12	EN4-812	80,700	64,500	161,400

WIDE LIFT (WL) SLINGS

	BODY WIDTH (IN)	STOCK NUMBER	VERTICAL BASKET CAPACITY (LBS)	EYE LENGTH (IN)	EYE MAT'L. WIDTH (IN)
TYPE 8 CONTINUOUS EYE WIDE LIFT					
1 PLY	6	WL1-806	15,400	9	1-1/2
	8	WL1-808	20,400	12	2
	10	WL1-810	25,600	15	2-1/2
	12	WL1-812	30,800	18	2
	16	WL1-816	38,000	24	2-3/4
	20	WL1-820	45,000	30	3-1/2
	24	WL1-824	52,000	36	4
2 PLY	6	WL2-806	28,600	9	1-1/2
	8	WL2-808	38,000	12	2
	10	WL2-812	57,200	18	3
	12				
	16	WL2-816	75,000	24	4
	20	WL2-820	90,000	30	5
	24	WL2-824	110,000	36	6

Continuous Eye Wide Lift For Heavy Loads
Constructed from one endless sling with the two body lengths butted and joined side by side. Stiffener webbing is used at the base of the eyes to deter the body webbing from folding down the middle.

	BODY WIDTH (IN)	STOCK NUMBER	VERTICAL BASKET CAPACITY (LBS)	EYE LENGTH (IN)	EYE MAT'L. WIDTH (IN)
TYPE 9 ATTACHED EYE WIDE LIFT					
1 PLY EYE	6	WLA1-806	5,000	6	1
	8	WLA1-808	5,000	8	1
	10	WLA1-810	5,000	10	1
	12	WLA1-812	5,000	12	1
	16	WLA1-816	10,000	14	2
	20	WLA1-820	10,000	16	2
	24	WLA1-824	10,000	20	2
2 PLY EYE	6	WLA2-806	10,000	10	1
	8	WLA2-808	10,000	10	1
	10	WLA2-810	10,000	12	1
	12	WLA2-812	10,000	12	1
	16	WLA2-816	18,000	12	2
	20	WLA2-820	18,000	18	2
	24	WLA2-824	18,000	18	2

Attached Eye Wide Lift For Light, Bulky Loads that require wider bearing areas and some balance attributes. Eyes are made from separate material – WLA1 is 1 ply – WLA2 is 2 ply – both sewn to sling body.
Body is single ply for both 1 and 2 ply eyes.

REVERSED EYE (RE) SLINGS TYPE 6

Reversed Eye Sling is a modified endless sling. Cordura wear pads offer added protection on the body and eyes of the sling. This extra webbing offers superior abrasion resistance and sling life.

	SLING WIDTH (IN)	TYPE 6 (RE)	VERTICAL (LBS)	CHOKER (LBS)	BASKET (LBS)	SLING THKNS. (IN)	EYE LENGTH (IN)
HEAVY DUTY WEB							
1 PLY	2	RE1-802	4,500	3,600	9,000	5/16	9
	4	RE1-804	7,700	6,200	15,400	5/16	15
	6	RE1-806	11,000	8,800	22,000	5/16	15
2 PLY	2	RE2-802	6,500	5,200	13,000	1/2	9
	4	RE2-804	13,000	10,400	26,000	1/2	15
	6	RE2-806	20,000	16,000	40,000	1/2	15
3 PLY	4	RE3-804	16,400	13,100	32,800	11/16	15
	6	RE3-806	25,500	20,400	51,000	11/16	15
4 PLY	6	RE4-806	34,000	27,200	68,000	7/8	15
LIGHT DUTY WEB							
1 PLY	2	RE1-602	3,600	2,900	7,200	1/4	9
	3-1/2	RE1-603-1/2	5,000	4,000	10,000	1/4	12
	4	RE1-604	6,800	5,400	13,600	1/4	15
	6	RE1-606	8,000	6,400	16,000	1/4	15
2 PLY	2	RE2-602	5,200	4,200	10,400	3/8	9
	3-1/2	RE2-603-1/2	9,000	7,200	18,000	3/8	12
	4	RE2-604	10,500	8,400	21,000	3/8	15
	6	RE2-606	14,400	11,500	28,800	3/8	15
3 PLY	3-1/2	RE3-603-1/2	12,000	9,600	24,000	1/2	12
	4	RE3-604	14,000	11,200	28,000	1/2	15
	6	RE3-606	20,000	16,000	40,000	1/2	15

ORDERING NYLON SLINGS

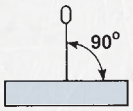
HOW TO ORDER: Sling Part No _____ Length _____ Type _____

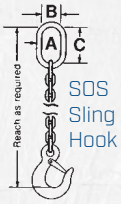
EXAMPLE: Sling Part No EE2-802 Length 10' Type 3

Eye-Eye 2 Ply Heavy Duty Nylon 2" Wide - 10' Length - Flat Eye

NOTE: Measurement of Length does not include the ring

ALLOY CHAIN SLINGS



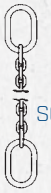


SOS Sling Hook


SOG Grab Hook


SOF Foundry Hook


SOL Latchlok


SOO


Style A

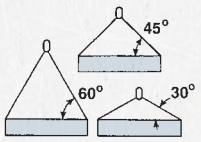

Style B

GRADE 100 SINGLE CHAIN SLING TYPE S & C

CHAIN SIZE		WLL (LBS)	OBLONG MASTER LINK DIMENSIONS (IN)		
(IN)	(MM)		MATERIAL DIAMETER A	INSIDE WIDTH B	INSIDE LENGTH C
7/32	5.5	2,700	13/32	1-1/2	3
9/32	7	4,300	1/2	2-1/2	5
3/8	10	8,800	3/4	2-3/4	5-1/2
1/2	13	15,000	1	3-1/2	7
5/8	16	22,600	1	3-1/2	7
3/4	20	35,300	1-1/4	4-3/8	8-3/4
7/8	22	42,700	1-1/2	5-1/4	10-1/2
1	26	59,700	1-3/4	6	12
1-1/4	32	90,400	2	7	14

GRADE 80 SINGLE CHAIN SLING TYPE S & C

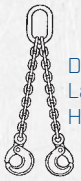
CHAIN SIZE		WLL (LBS)	OBLONG MASTER LINK DIMENSIONS (IN)		
(IN)	(MM)		MATERIAL DIAMETER A	INSIDE WIDTH B	INSIDE LENGTH C
7/32	5.5	2,100	13/32	1-1/2	3
9/32	7	3,500	1/2	2-1/2	5
3/8	10	7,100	3/4	2-3/4	5-1/2
1/2	13	12,000	1	3-1/2	7
5/8	16	18,100	1	3-1/2	7
3/4	20	28,300	1-1/4	4-3/8	8-3/4
7/8	22	34,200	1-1/2	5-1/4	10-1/2
1	26	47,700	1-3/4	6	12
1-1/4	32	72,300	2	7	14



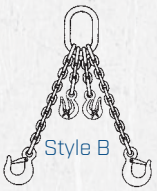
DOS Sling Hooks


DOG Grab Hooks


DOF Foundry Hooks


DOL Latchlok Hooks


Style A

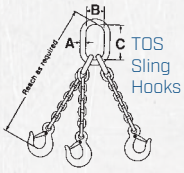

Style B

GRADE 100 DOUBLE CHAIN SLING TYPE D

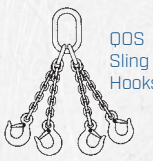
CHAIN SIZE		WLL (LBS)			OBLONG MASTER LINK DIMENSIONS (IN)		
(IN)	(MM)	60°	45°	30°	MATERIAL DIAMETER A	INSIDE WIDTH B	INSIDE LENGTH C
7/32	5.5	4,700	3,800	2,700	13/32	1-1/2	3
9/32	7	7,400	6,100	4,300	1/2	2-1/2	5
3/8	10	15,200	12,400	8,800	3/4	2-3/4	5-1/2
1/2	13	26,000	21,200	15,000	1	3-1/2	7
5/8	16	39,100	32,000	22,600	1-1/4	4-3/8	8-3/4
3/4	20	61,100	49,900	35,300	1-1/2	5-1/4	10-1/2
7/8	22	74,000	60,400	42,700	1-1/2	5-1/4	10-1/2
1	26	103,200	84,200	59,600	1-3/4	6	12
1-1/4	32	156,500	127,800	90,400	2	7	14

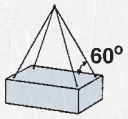
GRADE 80 DOUBLE CHAIN SLING TYPE D

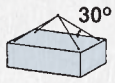
CHAIN SIZE		WLL (LBS)			OBLONG MASTER LINK DIMENSIONS (IN)		
(IN)	(MM)	60°	45°	30°	MATERIAL DIAMETER A	INSIDE WIDTH B	INSIDE LENGTH C
7/32	5.5	3,600	3,000	2,100	13/32	1-1/2	3
9/32	7	6,100	4,900	3,500	1/2	2-1/2	5
3/8	10	12,300	10,000	7,100	3/4	2-3/4	5-1/2
1/2	13	20,800	17,000	12,000	1	3-1/2	7
5/8	16	31,300	25,600	18,100	1-1/4	4-3/8	8-3/4
3/4	20	49,000	40,000	28,300	1-1/2	5-1/4	10-1/2
7/8	22	59,200	48,400	34,200	1-3/4	6	12
1	26	82,600	67,400	47,700	2	7	14
1-1/4	32	125,200	102,000	72,300	2-1/4	8	16



TOS Sling Hooks


QOS Sling Hooks





GRADE 100 TRIPLE & QUAD CHAIN SLING TYPE T & Q

CHAIN SIZE		WLL (LBS)			OBLONG MASTER LINK SUB-ASSEMBLY DIMENSIONS (IN)		
(IN)	(MM)	60°	45°	30°	MATERIAL DIAMETER A	INSIDE WIDTH B	INSIDE LENGTH C
7/32	5.5	7,000	5,700	4,000	1/2	2-1/2	5
9/32	7	11,200	9,100	6,400	3/4	2-3/4	5-1/2
3/8	10	22,900	18,700	13,200	1	3-1/2	7
1/2	13	39,000	31,800	22,500	1-1/4	4-3/8	8-3/4
5/8	16	58,700	47,900	33,900	1-1/2	5-1/4	10-1/2
3/4	20	91,700	74,900	53,000	1-3/4	6	12
7/8	22	110,900	90,600	64,000	1-1/2	5-1/4	10-1/2
1	26	154,800	126,400	89,300	1-3/4	6	12
1-1/4	32	313,100	191,700	135,600	2	7	14

GRADE 80 TRIPLE & QUAD CHAIN SLING TYPE T & Q

CHAIN SIZE		WLL (LBS)			OBLONG MASTER LINK SUB-ASSEMBLY DIMENSIONS (IN)		
(IN)	(MM)	60°	45°	30°	MATERIAL DIAMETER A	INSIDE WIDTH B	INSIDE LENGTH C
7/32	5.5	5,450	4,450	3,150	1/2	2-1/2	5
9/32	7	9,100	7,400	5,200	3/4	2-3/4	5-1/2
3/8	10	18,400	15,100	10,600	1	3-1/2	7
1/2	13	31,200	25,500	18,000	1-1/4	4-3/8	8-3/4
5/8	16	47,000	38,400	27,100	1-1/2	5-1/4	10-1/2
3/4	20	73,500	60,000	42,400	1-3/4	6	12
7/8	22	88,900	72,500	51,300	2	7	14
1	26	123,900	101,200	71,500	2-1/4	8	16
1-1/4	32	187,800	153,400	108,400	2-3/4	9	16

Safety Note: A quad branch chain sling usually does not sustain loads with even distribution to its four branches, especially when loads are of rigid structure. Therefore, maximum working load limits are set at the same values as for triple branch chain slings of equal quality and size and used with branches at the same angle of inclination.

REMEMBER TO INCLUDE SLING CODE

SLING TYPES		MASTER LINK		ATTACHMENTS	
S	- Single Leg	O	- Oblong (standard)	S	- Sling Hook
D	- Double Leg	P	- Pear-shaped (Available upon request)	G	- Grab Hook
T	- Triple Leg			F	- Foundry Hook
Q	- Quadruple Leg			L	- Latchlok

ORDERING ALLOY CHAIN SLINGS

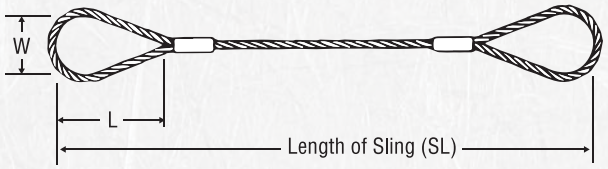
Type ____ Master Link ____ Hooks ____ Chain Size ____ Reach ____

Type D Master Link O Hooks S Chain Size 3/8" Reach 10'

Double Leg Sling w/Oblong Link - Sling Hooks - 3/8" Chain - 10' Reach

NOTE: When ordering chain slings, pull to pull measurement **INCLUDES** oblong link.

WIRE ROPE SLINGS



105B SLINGS
FLEMISH EYE MECHANICAL SPLICE

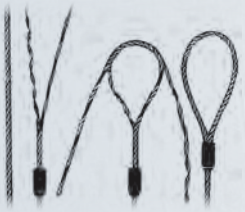
These cost-effective slings provide the most efficient use of wire rope capacity. The eyes are formed using the flemish eye splice and the ends are secured by pressing a metal sleeve over the ends of the strands of the splice. Pull is directly along the centerline of rope and eye.

	DIA. OF ROPE (IN)	MIN. SLING LENGTH (FT IN)	LOOP DIMENSIONS		RATED CAPACITIES IN TONS (2000 LBS)					
								BASKET HITCH*		
			WIDTH (IN)	LENGTH (IN)	SINGLE LEG VERTICAL	CHOKER HITCH	90°	60°	45°	30°
6 X 19 EIP IWRC	1/4	1' 6"	2	4	0.65	0.48	1.3	1.1	.91	.65
	5/16	1' 9"	2-1/2	5	1.0	0.74	2.0	1.7	1.4	1.0
	3/8	2'	3	6	1.4	1.1	2.9	2.5	2.0	1.4
	1/2	2' 6"	4	8	2.5	1.9	5.1	4.4	3.6	2.5
	5/8	3'	5	10	3.9	2.9	7.8	6.8	5.5	3.9
	3/4	3' 6"	6	12	5.6	4.1	11	9.7	7.9	5.6
	7/8	4'	7	14	7.6	5.6	15	13	11	7.6
	1	4' 6"	8	16	9.8	7.2	20	17	14	9.8
	1-1/8	5'	9	18	12	9.1	24	21	17	12
6 X 37 EIP IWRC	1-1/4	5' 6"	10	20	15	11	30	26	21	15
	1-3/8	6'	11	22	18	13	36	31	25	18
	1-1/2	7'	12	24	21	16	42	37	30	21
	1-3/4	8'	14	28	28	21	57	49	40	28
	2	9'	16	32	37	28	73	63	52	37
	2-1/4	10'	18	36	44	35	89	77	63	44
	2-1/2	11'	20	40	54	42	109	94	77	54
	2-3/4	12'	22	44	65	51	130	113	92	65
	3	13'	24	48	77	60	153	133	108	77

** Rated capacities of basket hitches are based on a minimum diameter of curvature at the point of load contact of 25 times the rope diameter.*

FLEMISH EYE SPLICE

In the standard flemish eye mechanical splice, rope is separated into two parts – 3 adjacent strands, and 3 adjacent strands and core. These two parts are then re-laid back in opposite directions to form an eye, and ends are secured with a pressed metal sleeve.



SWAGING PROVIDES POSITIVE GRIP

This cutaway of a metal sleeve swaged onto a splice shows how metal "flows" into valleys between strands to positively prevent ends from unlaying when sling is used within its rated capacity.

WIRE ROPE MECHANICAL SPLICE BRIDLE SLINGS

	ROPE DIA. (IN)	MIN. SLING LENGTH (FT IN)	EYE HOOK CAP. (TONS)	TYPE 200 RATED CAPACITY (TONS)			OBLONG LINK DIA. (IN)	TYPE 300 RATED CAPACITY (TONS)			OBLONG LINK DIA. (IN)	TYPE 400 RATED CAPACITY (TONS)			OBLONG LINK DIA. (IN)
				60°	45°	30°		60°	45°	30°		60°	45°	30°	
6 X 19 EIP IWRC	1/4	1' 3"	1	1.1	.91	.65	1/2	1.7	1.4	.97	1/2	2.2	1.8	1.3	1/2
	5/16	1' 6"	1	1.7	1.4	1.0	1/2	2.6	2.1	1.5	3/4	3.5	2.8	2.0	3/4
	3/8	1' 8"	1.5	2.5	2.0	1.4	3/4	3.7	3.0	2.2	3/4	5.0	4.1	2.9	1
	7/16	1' 10"	2	3.4	2.7	1.9	3/4	5.0	4.1	2.9	1	6.7	5.5	3.9	1
	1/2	2'	3	4.4	3.6	2.5	3/4	6.6	5.4	3.8	1	8.8	7.1	5.1	1-1/4
	9/16	2' 2"	5	5.5	4.5	3.2	1	8.3	6.8	4.8	1	11	9.0	6.4	1-1/4
	5/8	2' 4"	5	6.8	5.5	3.9	1	10	8.3	5.9	1-1/4	14	11	7.8	1-1/4
	3/4	2' 9"	7	9.7	7.9	5.6	1-1/4	15	12	8.4	1-1/2	19	16	11	1-3/4
	7/8	3' 3"	11	13	11	7.6	1-1/4	20	16	11	1-1/2	26	21	15	1-3/4
	1	3' 6"	11	17	14	9.8	1-1/2	26	21	15	1-3/4	34	28	20	2-1/4
	1-1/8	4'	15	21	17	12	1-3/4	31	26	18	2	42	34	24	2-3/4
6 X 37 EIP IWRC	1-1/4	4' 6"	15	26	21	15	1-3/4	38	31	22	2-1/4	51	42	30	2-3/4
	1-3/8	5'	22	31	25	18	2	46	38	27	2-3/4	62	50	36	3-1/4
	1-1/2	5' 6"	22	37	30	21	2-1/4	55	45	32	2-3/4	73	60	42	3-3/4
	1-3/4	6' 6"	30	49	40	28	2-1/2	74	60	42	3	98	80	57	4-1/2
	2	8'	37	63	52	37	2-3/4	95	78	55	3-1/2	127	104	73	4-1/2

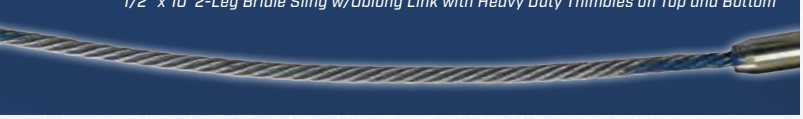
NOTE: When ordering wire rope bridle slings, pull to pull measurement **DOES NOT** Include oblong link.

ORDERING WIRE ROPE SLINGS

HOW TO ORDER: Type _____ Code _____ Cable Size _____ Length _____

EXAMPLE: Type 200 Code HT Cable Size 1/2" Length 10'

1/2" x 10' 2-Leg Bridle Sling w/Oblong Link with Heavy Duty Thimbles on Top and Bottom

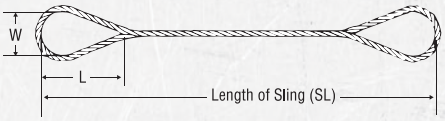


REMEMBER TO INCLUDE SLING CODE

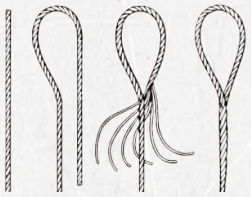
- **FL** - Oblong Link w/Heavy Duty Thimbles on Top and Flemish Loops on Bottom
- **HT** - Oblong Link w/Heavy Duty Thimbles Top and Bottom
- **EH** - Oblong Link w/Heavy Duty Thimbles on Top and Eye Hoist Hooks Safety Latches on Bottom
- **SPA** - Oblong Link w/Heavy Duty Thimbles on Top and Screw Pin Anchor Shackle on Bottom

SPECIALTY SLINGS

100B SLINGS HAND-TUCKED SPLICE



The end of a single wire rope is turned back along the rope to form the eye, and strands are hand-tucked into the body of the rope. There are two styles available:



1. Standard Four Tuck burnt-end splice. The strands are left exposed, cut off and fused with a torch.
2. The tapered and concealed splice utilizes tension in the rope body to secure strands where they are tucked back into the rope. The center core of either fiber or wire is removed along the length of the splice. When "tapered and concealed", ends of strands are tucked inward and concealed inside the rope.

Standard Four tuck and tapered and concealed slings have the same rated capacity for each available diameter of wire rope.

WARNING: Hand-spliced slings should not be used in lifts where the sling may rotate and cause the wire rope to unlay.

DIAMETER OF ROPE (IN)	MIN. LENGTH OF SLING (FT-IN)	LOOP DIMENSIONS		RATED CAPACITIES IN TONS (2000 LBS) 6 X 19 AND 6 X 37 EIP ROPE - FIBERCORE & IWRC				
						BASKET HITCH		
		W (IN)	L (IN)	SINGLE LEG VERTICAL	CHOKER HITCH	60°	45°	30°
1/4	1-9	2	4	0.54	0.42	0.94	0.77	0.54
5/16	2	2-1/2	5	0.83	0.66	1.4	1.2	0.83
3/8	2-6	3	6	1.2	0.94	2.0	1.7	1.2
7/16	2-9	3-1/2	7	1.6	1.3	2.7	2.2	1.6
1/2	3	4	8	2.0	1.6	3.5	2.9	2.0
9/16	3-6	4-1/4	9	2.5	2.1	4.4	3.6	2.5
5/8	4	5	10	3.1	2.6	5.3	4.4	3.1
3/4	4-6	6	12	4.3	3.7	7.4	6.1	4.3
7/8	5-6	7	14	5.7	5.0	9.8	8.0	5.7
1	6	8	16	7.4	6.4	13	10	7.4
1-1/8	6-6	9	18	9.3	8.1	16	13	9.3
1-1/4	7	10	20	11	9.9	20	16	11

Rated capacities of choker hitches apply when the angle of choke is greater than 120°. Rated capacities of basket hitches are based on a minimum diameter of curvature at the point of load contact of 25 times the rope diameter.

THE WAYNE SPECIAL

Wayne Printup was a loyal HSI customer and iron worker who first suggested to us a sling with a hand tucked splice at one end and a Flemish eye mechanical splice at the other end.

108C SLINGS - CABLE-LAID

These smooth and very flexible slings are made from cut lengths of cable-laid fabric that is machine formed by laying six wire ropes in a helical pattern around a core rope. Flemish eye mechanical splices, secured by pressed metal sleeves, provide centerline pull at the eyes. More flexible than same capacity single-part slings.

Sling bodies are made from seven individual wire ropes

	BODY DIA (IN)	RATED CAPACITY (TONS)						LOOP		SLIP THRU THIMBLE ST	HEAVY THIMBLE HT	SLIP-ON THIMBLE QT
		VERT	CHOKER	BASKET HITCH								
					60°	45°	30°	A	B			
7X7	1/4	.50	.34	1.0	.87	.71	.50	2	4	W-2	1/4	3/8
	3/8	1.1	.74	2.2	1.9	1.5	1.1	3	6	W-2	3/8	3/8
	1/2	1.9	1.3	3.7	3.2	2.6	1.9	4	8	W-3	1/2	1/2
	5/8	2.8	1.9	5.5	4.8	3.9	2.8	5	10	W-4	5/8	5/8
7X19	3/4	4.1	2.8	8.1	7.0	5.8	4.1	6	12	W-4	3/4	3/4
	7/8	5.4	3.7	11	9.4	7.6	5.4	7	14	W-5	7/8	7/8
	1	6.9	4.7	14	12	9.7	6.9	8	16	W-5	1	1
	1-1/8	8.3	5.8	17	14	12	8.3	9	18	W-6	1-1/8	–
	1-1/4	9.9	7.0	20	17	14	9.9	10	20	W-6	1-1/4	–

TRI-FLEX® WIRE ROPE SLING

UP TO 1,140 TONS

US Patent*

This is a three part wire rope sling developed to give the rigger the advantages of strength combined with greater flexibility. It was created to replace large diameter single part wire rope slings which proved awkward and stiff. Steel erectors, millwrights and riggers use Tri-Flex Slings for everything from steel erection or machinery moving to any type of heavy lift. These slings are made in matching lengths.

GATOR-LAID® WIRE ROPE SLINGS

UP TO 869.6 TONS

US Patent*

For heavy lifting, Gator-Laid® Wire Rope Slings are the most efficient and flexible multipart wire rope slings that meet all industrial and regulatory standards. This sling has metal sleeves for the splice connection and parallel-laid wire in the eyes. It is a heavy-lift sling that can be made in short working lengths. Gator-Laid® products were developed in conjunction with the offshore oil industry to provide the world's best heavy-lift wire rope slings.

FINISHED DIAMETER	COMPONENT PARTS	STANDARD EYE SIZE	RATED CAPACITIES (TONS)			WEIGHT PER FOOT (LBS.)
			VERTICAL	CHOKER	BASKET	
1-3/4"	7/16"	22"	14.6	10.9	29.2	3.15
2"	1/2"	24"	19.1	14.3	38.2	4.14
2-1/4"	9/16"	26"	24.1	18.0	48.2	5.31
2-1/2"	5/8"	28"	29.6	22.2	59.2	6.48
3"	3/4"	30"	42.3	31.7	84.6	9.36
3-1/2"	7/8"	35"	57.3	42.9	114.6	12.78
4"	1"	40"	74.4	55.8	148.4	16.65
4-1/2"	1-1/8"	45"	93.6	60.2	187.2	21.06
5"	1-1/4"	50"	115.0	86.2	230.0	26.01
5-1/2"	1-3/8"	55"	138.2	103.6	276.4	31.50
6"	1-1/2"	60"	164.0	123.0	328.2	37.44
7"	1-3/4"	70"	220.3	165.2	440.6	51.03
8"	2"	80"	285.1	213.8	570.2	66.51
9"	2-1/4"	90"	355.6	266.7	711.2	84.24
10"	2-1/2"	100"	434.8	326.1	869.2	104.00

GATOR-FLEX® WIRE ROPE SLINGS AND GROMMETS

UP TO 869.6 TONS

US Patent*

This sling has a nine-part body style with wires in the eyes that are crossed or interwoven so no wrapping is necessary. This sling was developed in conjunction with riggers who preferred a sling for heavy lifts that could be visually inspected and have the highest flexibility possible in a multi-part wire rope sling.

Tri-Flex®, Gator-Laid®, and Gator-Flex® are registered trademarks of Slingmax®

Find patent information: www.HanesSupply.com/slingmax-patents

RIGGING HARDWARE

SCREW PIN SHACKLES

- Nominal Sizes: 3/16" - 2-1/2"
- Capacities 1/3 - 55 metric tons
- For "Pick and Place" Applications

UP TO 55 TONS

G-209
S-209

BOLT TYPE SHACKLES

- Nominal Sizes: 3/16" - 4"
- Capacities 1/3 - 150 metric tons
- For "Permanent," or "Long Term" Applications

UP TO 150 TONS

G-2130
S-2130

ALLOY SCREW PIN SHACKLES

- Nominal Sizes: 3/8" - 1-3/8"
- Capacities 2 - 21 metric tons
- Forged Alloy Steel – Quenched and Tempered, with alloy pins.

UP TO 21 TONS

G-209A

ALLOY BOLT-TYPE SHACKLES

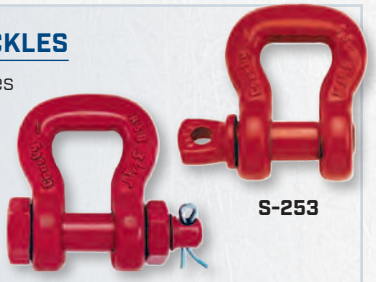
- Nominal Sizes: 3/8" – 7"
- Alloy bows, alloy bolts.
- Forged Alloy Steel 2 – 200 metric tons.
- Cast Alloy Steel 250 – 400 metric tons.

UP TO 400 TONS

G-2140
S-2140

SLING SAVER WEB SLING SHACKLES

- Increase in shackle bow radius increases synthetic sling efficiency to allow 100% of the sling's rated WLL to be achieved.
- Allows a better load distribution on internal fibers.
- Available in sizes of 3-1/4 – 50 metric tons



S-253

S-252

"WIDE BODY" SHACKLES

- Increase in shackle bow radius provides minimum 58% gain in sling bearing surface and eliminates need for a thimble.
- Increases usable sling strength minimum of 15%.
- Forged alloy steel from 7 – 300 metric tons.
- Cast alloy steel from 400 – 1,550 metric tons.

UP TO 1,550 TONS

G-2160

SKOOKUM® ALLOY ANCHOR SHACKLES

- Skookum Gold Standard Forgings
- All sizes are forged, quenched and tempered
- Enamel, zinc plate or galvanized finish
- Superior strength, hardness and uniformity
- Sizes 1/2" – 3"

UP TO 117 TONS

No. 263

CM® LONG REACH SHACKLES

- Alloy Steel; Load Rated; WLL forged on body
- Meets the requirements of ASME B30.26
- Design factor of 5:1
- Offered in self-colored or durable orange powder coat finish.

SWIVEL HOIST RINGS

- Rated Loads from 400 lbs. to 125 tons.
- Pivots 180°/Swivels 360°
- Does not need de-rated in angular lifting.
- Shown in Black oxide cadmium plated finish. Stainless steel, metric sizes and specials are also available.
- 200% Proof load tested with serial number for traceability.

Actek

CROSBY® TURNBUCKLES

HG-223 Hook & Hook

HG-225 Hook & Eye

HG-226 Eye & Eye

HG-227 Jaw & Eye

HG-228 Jaw & Jaw

SHOULDER TYPE MACHINE EYE BOLTS

- Forged Steel – Quenched and Tempered.
- Recommended for straight line pull
- Working Load Limits shown are for In-line pull.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Meets or exceeds all requirements of ASME B30.26.

S-279/M-279

CROSBY® WIRE ROPE CLIPS

G450 RED-U-BOLT®

- Entire clip galvanized to resist corrosive and rusting action.
- Clip sizes up through 1-1/2" have rolled threads.

G429 FIST-GRIP

- Entire clip is galvanized.
- All sizes have forged steel saddles.
- Bolts integral to saddle.

RIGGING HARDWARE

SLING HOOKS

- Designed with 5:1 Design Factor.
- Proper design, careful forging and precision controlled quenched and tempering give maximum strength without excessive weight and bulk.
- Sling hooks are load rated.
- Available in carbon steel and alloy steel.

SWIVEL HOOKS

Hoist hooks incorporate markings forged into the product which address two QUIC-CHECK® features:

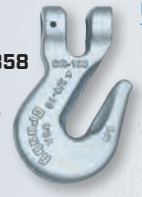
1. **Deformation Indicators** – Two strategically placed marks which allows for a QUIC-CHECK® measurement to determine if the throat opening has changed, thus indicating abuse or overload.
2. **Angle Indicators** – Indicates the maximum included angle which is allowed between two sling legs in the hook.

S-322: Rotates for pre-lifting positioning only
S-3322: Rotates under load

GRAB HOOKS

GRAB HOOK

- Forged Steel - Quenched & Tempered.
- Design factor is 4:1.
- 20% WLL reduction



CRADLE GRAB HOOK

- Forged Steel - Quenched and Tempered.
- Design factor is 4:1.
- No WLL reduction

SORTING HOOKS

- Deep straight throat permits efficient handling of flat plates or large cylindrical shapes.
- Long tapered point allow easy grab in rings, pear links, eye bolts or lifting holes.

SLIDING CHOKER HOOKS

- Forged alloy steel - Quenched and tempered through 3/4".
- Wide throat to take heavy thimbles.
- Ultimate load is 5 times the WLL.

SHANK HOOKS

- Available in 3/4 to 300 metric tons.
- Available in carbon steel, alloy steel and bronze.
- Quenched and tempered.

SNAP HOOKS

Pressed steel latches and stainless steel springs, bolts and nuts.

REPLACEMENT HOOKS

Easily attaches to any hoist with welded link load chain and roller chain or wire rope with suitable end fitting.

CROSBY® SHUR-LOC® HOOKS

- Positive Lock Latch is Self-Locking when hook is loaded.
- Rated for both Wire Rope and use with Grade 80/100 Chain.
- Individually Proof Tested at 2.5 times the 4:1 WLL with certification.

S-1326: Rotates for pre-lifting positioning
S-13326: Rotates under load

GOLDEN GATE HOOKS

SHANK-TYPE CRANE HOOKS

For use on existing load blocks, with standard length hook sizes: 2 - 14

LINK CHAIN NEST

Ball bearing swivel attaches to chain by an alloy pin. Suitable for frequent rotation under load. Hook sizes 4,5, & 6.

CRANE BLOCKS

McKissick 380 Utility Hook Blocks

SNATCH BLOCKS

McKissick Champion Snatch Blocks

SWIVELS

Capacities up to 600 Tons

LOAD INDICATOR DEVICES

Loadlink Plus Measuring Scale

LIFTING CLAMPS

GXL

- Vertical Plate Clamp available.
- 1/2 - 2 ton capacity

IPUZ

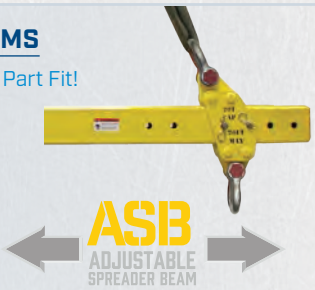
For lifting, turning and vertical transfer of steel plates and constructions.

BELOW-THE-HOOK LIFTING SOLUTIONS

ADJUSTABLE SPREADER BEAMS

No Tube Cutting! Easier Drilling! Better Part Fit!

- Does not lose capacity at maximum spreader length.
- Capacities up to 100 Ton & 40 Foot.
- Brackets always fit and align due to more consistent nature of tube steel over pipe.



PERSONNEL CRANE BASKETS

- Anchors for safety lanyard and/or tagline.
- In-Swing, self-closing, self-latching door.
- Grab rail around full interior perimeter.
- Full 42" height expanded metal to reduce wind effect with full 4" kick plate.
- Includes 4-leg bridle w/master link and 4 bolt-type shackles.
- Quick attach/detach test weight assembly

ADJUSTABLE CRANE FORKS

- Utilizes standard fork truck forks and carriages.
- Forks adjust easily by hand and lock into place for a perfect fit every time.
- Rugged tubular construction, with reinforcement plates welded on at strategic locations, provides superior strength and durability.

FORK LIFT BEAMS

- Convenient for picking up items not accessible by normal fork lift operation.
- Included are two attachment chains approximately 4 feet long to secure the unit to the fork truck.
- Also included for lifting are bolt type shackles and swivel hooks with latches.

PATENTED WIND TURBINE LIFTING SYSTEM

The Gold Standard in Wind Turbine Lifting!

- Each bracket only weighs 92 lbs. – Reduces required manpower to install.
- Only 4 brackets required for entire lift.
- Replaceable inserts quickly adjust to variances in hole tolerances "on-the-fly."
- Designed to be used optimally with Twin-Path® slings.

Hanes Supply Rigging Safety seminars are a comprehensive introduction to safe lifting practices intended to encourage worker safety and education.

TOPICS INCLUDE:

REVIEW OF ASME B30:

Overview of safety codes and standards covering cranes and rigging equipment.

INSPECTION (B30.9/B30.26):

- Rejection criteria
- Identification/tags
- Slings and hardware

EQUIPMENT SELECTION:

- Hardware capabilities
- Hitch selection

SAFE APPLICATIONS:

- Share of load
- Lifting at angles

Work with HSI Slings™ Since 1930

HANES SUPPLY INC. • REGISTERED COMPANY • ISO 9001:2015

RENTAL

Hanes Supply offers a large inventory of rental tools and equipment ready to be picked up or delivered to your job site Whether you are in need of individual products, or you are looking to save on a complete equipment package to be rented for a particular job, our rental department has the tools you need.

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